

Grade 7 – Strand: Geometric Relationships

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Pre-Knowledge What do you need to know to start learning this concept?	Concept	Future Concepts What future concepts can you learn once you understand this concept?	Real World Connection How does learning this connect connect to the real world in a meaningful way?
<ul style="list-style-type: none">• Recognizing and classifying shapes	<ul style="list-style-type: none">• Similar shapes	<ul style="list-style-type: none">• Learning to find the unknown angle	<ul style="list-style-type: none">• Need to know ratios and similar triangles for builders/engineers/architects
<ul style="list-style-type: none">• Recognizing and classifying shapes	<ul style="list-style-type: none">• Tools and strategies for comparing shapes	<ul style="list-style-type: none">• Area/perimeter problems (finding areas of smaller shapes, adding the areas to find the total area)	<ul style="list-style-type: none">• Stocking shelves, packing (moving trucks, camping bags, etc)
<ul style="list-style-type: none">• Measurements of angles and lengths• Previous experience drawing triangles, classifying triangles	<ul style="list-style-type: none">• Minimum information required to describe/draw a unique triangle	<ul style="list-style-type: none">• COS law, SIN law, sum of the interior angles	<ul style="list-style-type: none">• In blueprints, drawers don't necessarily label everything, and you should know how to calculate certain angle/length measurements by induction
<ul style="list-style-type: none">• Computing area and perimeter, recognizing congruent shapes	<ul style="list-style-type: none">• Finding relationships between area/perimeter/lengths of congruent shapes	<ul style="list-style-type: none">• Understanding whether relationships are linear, quadratic, cubic, etc.	<ul style="list-style-type: none">• Before you order a new desk for your apartment, you need to consider both the cross sectional area of the desk and the perimeter of the desk and compare them to the space available in your room/workspace